

# KYN68B-12(F-C)

## 型铠装移开式交流金属封闭开关柜 Metal-clad Movable Switchgear



### 产品概述

KYN68B-12(F-C) 回路铠装式交流金属封闭开关设备是我公司总结国内外同类产品特点, 为满足用户需要而设计的 F-C 回路柜。内装高压真空接触器与高压限流熔断器而组成的组合电器(通称 F-C 回路), 适用于 3.6~12KV 三相交流, 50HZ 系统中作为控制、保护高压电动机、变压器和投切电容器组。它具有控制性能合理、保护性能良好及综合造价低的优势。因此, F-C 回路柜已越来越多地被用户所采用, 产品符合标准要求, 具备“五防”功能。

### 环境条件

1. 环境温度: 不高于 +40℃, 不低于 -5℃。且 24h 内平均温度不超过 +35℃。
2. 海拔高度: 海拔不超过 1000m。
3. 相对湿度: 日平均值不超过 95%, 月平均值不超过 90%。
4. 地震烈度: 不超过 8 度。
5. 水蒸气压力: 日平均值不超过 2.2kPa, 月平均值不超过 1.8kPa。
6. 无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。

### Product Summary

KYN68B-12(F-C) circuit metal-clad AC switchgear is designed by us, take full advantage of domestic & foreign products, and also the needs of users. A combined electrical apparatus (generally called the F-C circuit) composed of HV vacuum contactor and HV current-limiting fuse is mounted in the panel. This F-C circuit switchgear is suitable for application in 3.6~12kV three phase AC 50HZ system to control and protect HV motor, transformer and switched capacitor group. It has superiorities of logical control principle, excellent protection performance and low cost. Therefore, this F-C circuit switchgear is adopted by more and more users. The switchgear conforms to relevant standards and meets the function of five preventions.

### Environmental Conditions

1. Ambient Temperature: No more than +40℃, No less than -15℃. Average temperature no more than +35℃ within 24 hours.
2. Altitude: No more than 1000m.
3. Relative Humidity: Average humidity no more than 95% within one day, Average humidity no more than 90% within one month.
4. Earthquake Intensity: No more than 8 degrees.
5. Vapor Pressure: Average pressure no more than 2.2kPa within one day, Average pressure no more than 1.8kPa within one month.
6. No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.

### 产品特点

1. 柜体及隔板采用敷铝锌钢板, 柜架采用多重折弯技术, 整体强度高, 接地连续性好。
2. 充分考虑我国电网系统中性点不接地或经消弧线圈接地的运行特点, 加大绝缘净距, 增强绝缘水平, 确保开关柜满足我国对绝缘强度的高要求。
3. 完全的金属铠装及彻底的隔室分离。
4. 柜体防护等级达到 IP4X, 有效防止设备受杂物及虫害侵入。
5. 简单有效的五防闭锁, 防止误操作。
6. 可移开手车采用蜗轮蜗杆推进机构, 同类型手车可百分之百互换, 操作维护方便。
7. 可选择离墙布置, 双面维护方便; 亦可选择靠墙布置, 柜前检修, 减少占地面积。
8. 是一种将高压熔断器与真空接触器配合使用的新型配电装置。
9. 产品具有体积小、结构紧凑、噪音低、寿命长、操作方便、可靠性高等特点。
10. F-C 回路开关柜主要配用国产 VCF 或进口 VRC 系列真空接触器, 可与本厂生产的 KYN28A-12 型铠装移开式金属封闭开关设备并列使用。

### Product Features

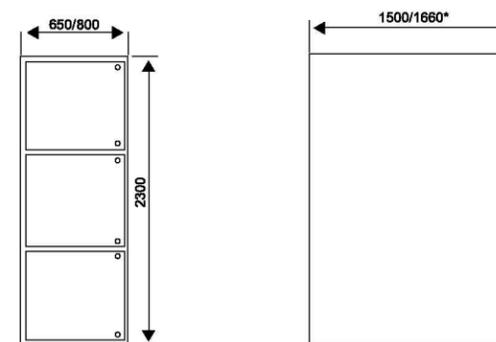
1. The cabinet and clashboard are both made of aluminum zinc coated steel plates, and multiple bending technologies are adopted for cabinet frame, with high overall intensity and strong grounding continuity.
2. Fully considering the neutral non-grounding or grounding by arc-suppression-coil features in the grid system in China, increase insulating clear distance, enhance insulating level, so as to ensure that the switch cabinet can meet the high requirements of insulating strength in China.
3. Complete metal armoring and separation of compartments.
4. Protection grade of cabinet is IP4X, which can effectively prevent debris and pests from invading the device.
5. Simple and effective "five prevention" locking function can avoid misoperation.
6. The worm and gear feed mechanism is adopted for withdrawable truck, and it can be interchanged completely for the same type of truck, with easy operation and maintenance.
7. Arrangement away from the wall can be selected for easy maintenance to both sides; and arrangement against the wall can also be selected for maintenance before the cabinet, and reducing of floor area.
8. A new power distribution device combining high voltage fuse and vacuum contactor.
9. It has small volume, compact structure with low noise, long operating life, easy operation and high reliability.
10. For F-C circuit switch cabinet, domestic VCF or imported VRC series vacuum contactor is used. It can be used in parallel with KYN28A-12 type armored withdrawable metal closed switchgear manufactured by our factory.

### 技术参数

序号 Sr.	名称 Content	单位 Unit	数值 Value
1	额定电压 Rated Voltage	kV	7.2/12
2	额定电流 Rated Current	A	160/250/400/630
3	额定频率 Rated Frequency	Hz	50/60
4	1min 工频耐受电压 Frequency Withstand Voltage in 1min	级间、对地 Phase, Earthed	kV 32/42
		隔离断口 Isolated Fracture	kV 36/48
5	雷电冲击耐受电压 (峰值) Lightning Impulse Withstand Voltage(Peak)	级间、对地 Phase, Earthed	kV 60/75
		隔离断口 Isolated Fracture	kV 65/85
6	额定开断能力 (安装熔断器) Rated Breaking Capacity(With Fuses)	kA	50
7	额定关合能力 (安装熔断器) Rated Closing Capacity(With Fuses)	kA	50
8	额定短时耐受电流 Rated Short-time Withstand Current	kA	6
9	额定短路持续时间 Rated Short-circuit Duration	S	1
10	额定峰值耐受电流 Rated Peak Withstand Current	kA	15
11	1min 辅助回路工频耐受电压 Aux. circuit Frequency Withstand Voltage in 1min	V	2000
12	辅助控制回路额定电压 Rated Voltage of Aux. control Circuit	V	交流或直流 110/220 AC 110 / DC 220
13	机械寿命 Mechanical Life	次 /Times	1000000
14	防护等级 Protect Degree	IP	IP4X(断路器门或隔室间打开为 IP2X) IP4X (IP2X when breaker door or chamber is opened)

### Technical Parameters

### 开关柜结构尺寸示意图



### Structure Dimension and Sketch

\* 电缆下进出线为 1500mm, 架空进出线为 1660mm。  
\* Cable bottom incoming/outgoing will be 1500mm;  
Cable trolley incoming/outgoing will be 1660mm.